

March 23, 2017

Monroe School District Attn: Devlin Piplic, Director of Facilities 200 East Fremont Monroe, Washington 98272

RE: Air and Wipe Sampling in Select Areas – March 2017 – Update Sky Valley Educational Center, 351 Short Columbia Street, Monroe, Washington

Dear Devlin:

On Monday, March 6, 2017 and Monday, March 13, 2017, Fulcrum Environmental Consulting, Inc. (Fulcrum) completed a sampling event at Sky Valley Educational Center for the presence of polychlorinated biphenyls (PCBs) in air and on non-porous surfaces. The purpose of the sampling event was to evaluate seven areas that were found during the previous event to have detectable levels of PCBs. In addition, Fulcrum collected samples from four other locations, each an electrical room, which had not been previously evaluated. See Attachment A for site photographs.

Background

In summer 2016, PCB-containing caulk and light fixtures were remediated at Sky Valley Educational Center in the Administration, Annex, Gymnasium, Classroom Pod/Library, and the Technology buildings. Following remediation samples were collected and analyzed to evaluate post remediation site conditions. In December 2016 the 1st quarter PCB sampling event was completed, which included collection of 50 air samples and 10 wipe samples. Seven samples and one field blank were identified with PCBs, including samples collected from Room F in the Annex Building; the Gathering Place – East, Small Gym, Girls Locker room, Girls Locker room Storage, and Electrical room of the Small Gym, and the CTE room of the Gym Building. All of the samples with detectable PCBs occurred sequentially and at the end of the sampling process. As a results, the consultant concluded, following a review of the results and sampling media handling practices, that the sampling media was contaminated during the handling process and recommended that retesting be completed.

Scope of Work

Fulcrum's scope of work consisted of the collection of air samples and wipe samples from select locations at Sky Valley Educational Center for the presence of PCBs and consisted of the following tasks:

- Collected 20 air samples for PCBs in air, 17 samples during the initial event and three samples during the second event, with each sample consisting of approximately 2,000 liters of air collected during a period of about 6.8 hours.
- Submitted collected air samples and two blank samples, during two events, for analysis by US
 Environmental Protection Agency (EPA) Method TO-10a for PCB content.



- Collected eight wipe samples from non-porous surfaces with laboratory provided hexane wipe media, each sample representing a 100 square centimeter (cm²) area.
- Submitted collected wipe samples and two blanks for analysis by EPA Method 8082 for PCB content.
- Prepared this single summary letter report with the associated laboratory results and revised sample figures.

Fulcrum's services were provided to Monroe School District in evaluation of the Sky Valley Educational Center located at 351 Short Columbia Street in Monroe, Washington. The sampling and analysis plan including the selection of sample locations was directed by the District. Fulcrum did not evaluate or review past investigation testing within the building beyond developing a basic level of knowledge. Fulcrum's assessment did not include evaluation of non-readily accessible areas such as sealed wall cavities, beneath wall or floor coverings, etc. except those specifically identified in this report. Results are specific to the time and day of inspection and may not reflect conditions at other times.

Sampling Event

Fulcrum's sampling event was completed in conformance with the Quality Assurance Project Plan (QAPP) prepared for the project. See Attachment B for project figures.

All samples collected during the project were submitted to ALS Global in Cincinnati, Ohio (ALS-Cincinnati) for analysis. ALS-Cincinnati has been the project laboratory for much of the prior work within the building. ALS-Cincinnati also provided all sampling media used during the project. All samples submitted to ALS-Cincinnati were submitted under chain-of-custody and delivered by commercial carrier in an insulated cooler with reusable freezer packets. See Attachment C for ALS-Cincinnati laboratory results and chain-of-custody for the initial event and Attachment D for the second event.

As specified in the QAPP, Fulcrum additionally collected and shipped under chain-of-custody by commercial carrier in an insulated cooler with reusable freezer packets, seven collocated air samples to the U.S. Environmental Protection Agency's Manchester Environmental Laboratory in Port Orchard, Washington for analysis. See Attachment E for a chain-of-custody for the samples delivered to Manchester Environmental Laboratory. Results for sample delivered to Manchester Environmental Laboratory are for comparative purposes and have not been received as of the date of this letter.

Air Sampling

Air sampling was completed as described in EPA Method TO-10a.² Sampling utilized a polyurethane foam (PUF) sample media in a borosilicate glass cassette. Air is pulled through the PUF filter by an air pump which is connected by clear Tygon-type tubing.

¹ Fulcrum, Quality Assurance Project Plan, Polychlorinated Biphenyl Sampling in Air and Non-Porous Surfaces for Monroe School District, Sky Valley Educational Center, Revision 2.0, Issued March 6, 2017.

² U.S. Environmental Protection Agency, Determination of Pesticides and Polychlorinated Biphenyls in Ambient Air Using Low Volume Polyurethane Foam (PUF) Sampling Followed by Gas Chromatographic/Multi-Detector Detection (GC/MD), January 1999.



Flow calibration was measured both before and after sample collection by a TSI 4046 primary calibrator. The primary calibrator was factory calibrated in January 2017. Samples were collected at a rate of 5 liters per minute (LPM) and ranged from 2,050 to 2,100 liters (L) of total sampling volume.

Wipe Sampling

All wipe samples were collected with laboratory provided hexane saturated cotton gauze, stored in 2-ounce borosilicate glass jars. Wipe samples were preferentially collected from either staining on a transformer(s) present within the area or from the area of the underlying flooring with the most dust accumulation. See Attachment A for site photographs.

Each wipe was collected from the substrate surface within a disposable paper template that measured 10 centimeters (cm) by 10 cm, for a total area of 100 square cm (cm²). Each individual wipe was returned to the sampling jar immediately following sample collection.

Sampling Discrepancies

The following sampling discrepancies occurred during the initial sampling event:

- During collection of sample 030617-07 in the CTE Room, an exterior window was observed to be open. It was unclear how long the window had been opened. As a result, following discovery of the open window, sample collection continued, the sample was returned to ALS-Cincinnati, but analysis was not requested.
- During collection of sample 030617-09 in the CTE Electrical Room the sample glass cassette fell from the sampling tube onto the ground and broke. As a result, the sample was returned to ALS-Cincinnati; however, sampling analysis could not be completed.
- In addition to the broken cassette, the collocated air sampling was stopped in the CTE Electrical Room after it was discovered that the door to the CTE Electrical Room had been left open. As a result, air exchange between the CTE Room and CTE Electrical Room was not collected under conditions that would be typical of the spaces.

The following sampling discrepancies occurred during the second sampling event:

No discrepancies were identified during the second sampling event.

Laboratory Results

ALS-Cincinnati completed analysis of samples collected during this project. A complete laboratory report for the initial event is included in Attachment C and a laboratory report for the second event is included in Attachment D.



Table 1: Air Sample Results

Sample	Location	Sample	Result	
		Volume (L)		
030617-01	Room F, Annex Building	2,100	$< 0.048 \text{ ng/m}^3$	
030617-02	Storage in Girls Locker Room	2,100	$< 0.048 \text{ ng/m}^3$	
030617-03	Girls Locker Room	2,100	$< 0.048 \text{ ng/m}^3$	
030617-04	Small Gym	2,100	< 0.048 ng/m ³	
030617-05	Small Gym Electrical Room	2,100	$< 0.048 \text{ ng/m}^3$	
030617-06	Gathering Room	2,100	$< 0.048 \text{ ng/m}^3$	
030617-07	CTE	2,100	HOLD / SAMPLE NOT ANALYZED	
030617-08	Large Gym Electrical Room	2,050	$< 0.048 \text{ ng/m}^3$	
030617-09	CTE Electrical Room	2,100	COLLOCATED SAMPLE DAMAGED /	
030017-09	CTE Electrical Room	2,100	SAMPLE NOT ANALYZED	
030617-10	West Pod Mezzanine	2,050	$< 0.048 \text{ ng/m}^3$	
030617-21	Field Blank	-	< 0.048 ng/m ³	
030617-22	Lab Blank	-	$< 0.048 \text{ ng/m}^3$	
031317-01	CTE	2,100	$< 0.048 \text{ ng/m}^3$	
031317-02	CTE Electrical Room	2,100	$< 0.048 \text{ ng/m}^3$	
031317-03	Field Blank	-	$< 0.048 \text{ ng/m}^3$	
031317-04	Lab Blank	-	< 0.048 ng/m ³	
EPA Regula	EPA Regulatory Standard 100 ng/m ³			

Laboratory analysis did not identify any airborne PCBs within the samples collected and analyzed during this event. All method reporting limits were significantly below the EPA regulatory threshold for PCBs in air of 100 nanograms per cubic meter (ng/m³) of air.

Table 2: Wipe Sample Results

Sample	Location	Component & Substrate	Result
030617-11	Small Gym Electrical Room	Metal Transformer Body Side	< 0.10 μg/sample
030617-12	Small Gym Electrical Room	Metal Transformer Body Top	< 0.10 μg/sample
030617-13	Large Gym Electrical Room	Metal Transformer Body Side	< 0.10 μg/sample
030617-14	Large Gym Electrical Room	Concrete Floor	Aroclor 1260 at 5.2 μg/100 cm²
030617-15	CTE Electrical Room	Metal Transformer Body Side	< 0.10 μg/sample
030617-16	CTE Electrical Room	Concrete Floor	Aroclor 1260 at 8.5 μg/100 cm²
030617-17	West Pod Mezzanine	Wood Floor	< 0.10 μg/sample
030617-18	West Pod Mezzanine	Metal Transformer Body Side	< 0.10 μg/sample
030617-19	Field Blank	-	< 0.10 μg/sample
030617-20 Lab Blank -		< 0.10 μg/sample	
EPA Regula	tory Standard	10 μg/100 cm²	

Aroclor 1260 were present in samples from the concrete floors in the Large Gym Electrical Room and the CTE Electrical Room. Both wipe samples were reported with total PCB concentrations below the EPA threshold of 10 micrograms (µg) per 100 cm².



Conclusions & Recommendations

Laboratory analysis did not identify any PCB concentration above the method reporting limit in any of the air samples.

Based on the results of this sampling event, Room F in the Annex Building, the Girls Locker Room Storage, Small Gym, Small Gym Electrical Room, Gathering Room, Large Gym Electrical Room, CTE, and CTE Electrical Room; and the West Pod Mezzanine can be returned to typical use.

Laboratory analysis identified low concentrations of Aroclor 1260 on the concrete floors in the Large Gym Electrical Room and the CTE Electrical Room. While remediation is not required based on the PCB concentrations present, Fulcrum recommends that the District consider implementation of best management practices where practicable and feasible and with the overall goal of reducing the presence of detectable PCBs within the building.

As such, Fulcrum recommends that the floor surfaces within each of the electrical rooms be cleaned of free dust by trained District staff or a qualified remediation contractor. Furthermore, given the difficulty of cleaning the porous concrete surface, Fulcrum recommends application of an approved paint/sealer to the concrete floors. Given the potential for unpleasant odors associated with the paint/sealer, Fulcrum recommends that application occur as build use and school schedules permit.

If you have any questions, please contact me at 509.574.0839.

Sincerely,

Ryan K. Mathews, CIH, CHMM

Ryan K. Mather

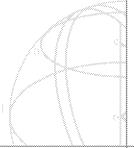
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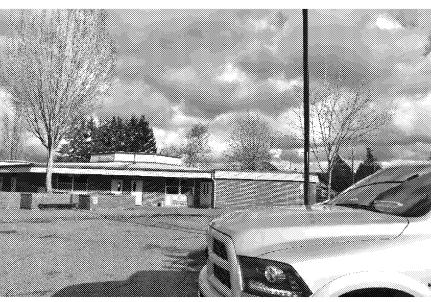
Attachment A

Site Photographs

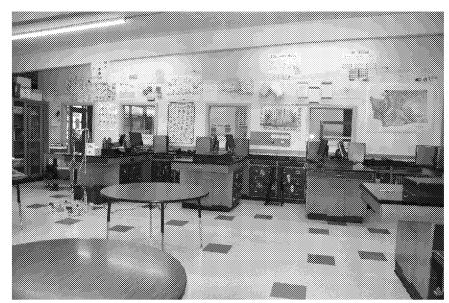




Sky Valley Education Center located at 351 Short Columbia Street in Monroe, Washington



View of the West Pod Mezzanine.



030617-01: Room F, located in the Annex.

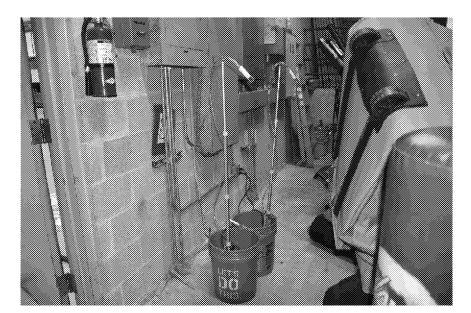


030617-02: Girl's Locker Room Storage Room, located in Girl's Locker Room.

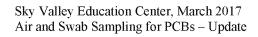
Sky Valley Education Center, March 2017 Air and Swab Sampling for PCBs – Update

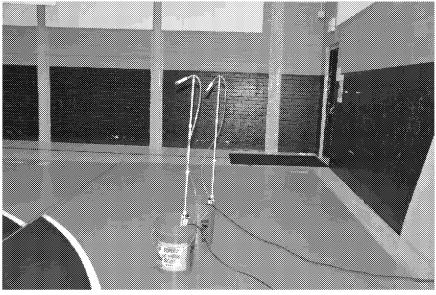


030617-03: Girl's Locker Room.



030617-05: Small Gym Electrical Room.



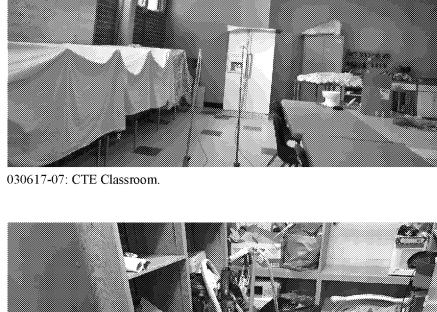


030617-04: Small Gym.

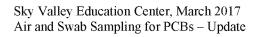


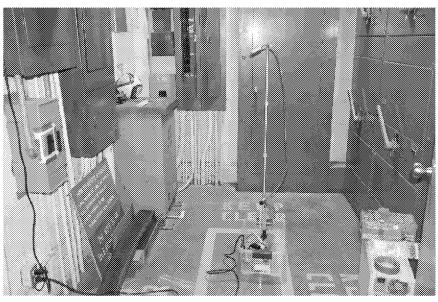
030617-06: Gathering Room.





030617-09: CTE Classroom – Electrical Room.

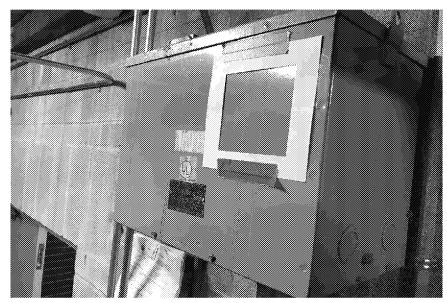




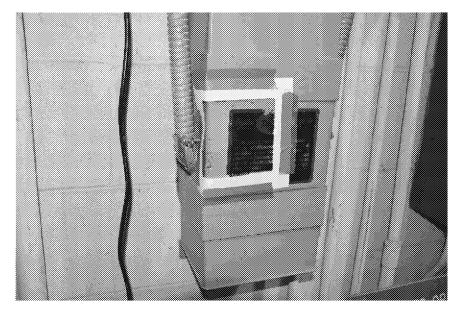
030617-08: Large Gym – Electrical Room.



030617-10: West Pod – Mezzanine.



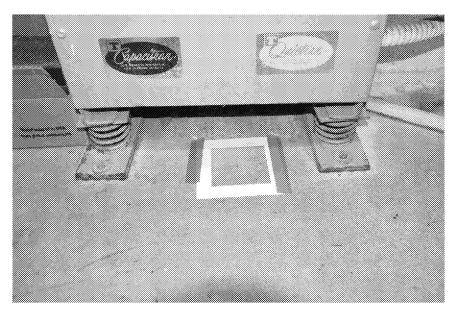
030617-11: Small Gym – Electrical Closet. Sample taken from side of transformer in an area where streaking was observed.



030617-13: Large Gym – Electrical Closet. Sample taken from side of transformer in an area with discoloration.

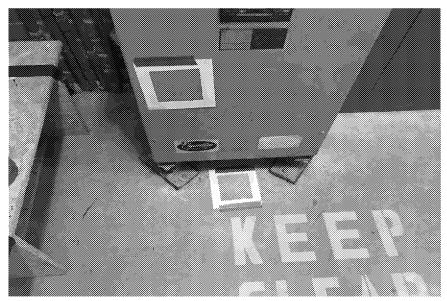


030617-12: Small Gym – Electrical Closet. Sample taken directly below transformer on electrical box.

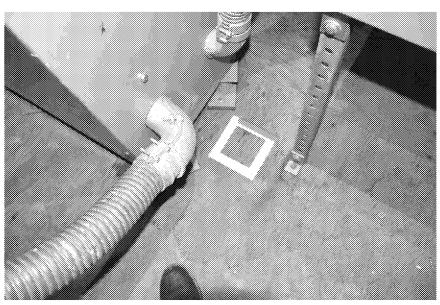


030617-14: Large Gym – Electrical Closet. Sample taken directly beneath the transformer on the concrete floor. No staining was observed.

Sky Valley Education Center, March 2017 Air and Swab Sampling for PCBs – Update



030617-15 & 030617-16: CTE Classroom – Electrical Room. Samples collected from the side of the transformer and directly below transformer on concrete floor.



030617-17: West Pod – Mezzanine. Sample collected on the wood flooring directly below the transformer. Slight staining was observed.

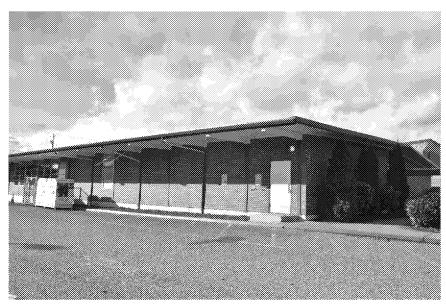


030617-18: West Pod – Mezzanine. Sample taken from side of transformer. No staining or streaking was observed.

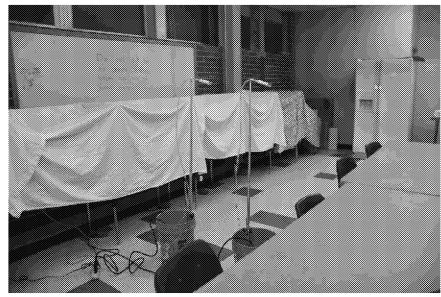


View of the Annex portion of the campus; where Room F is located.

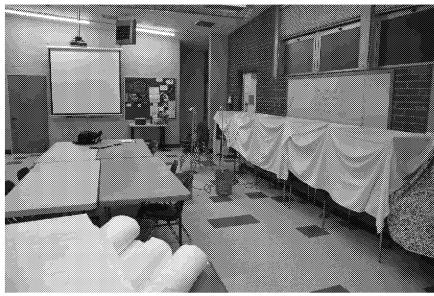
Sky Valley Education Center, March 2017 Air and Swab Sampling for PCBs – Update



General construction on the exterior of the campus buildings.



031317-01: CTE Classroom. All windows and doorways remained closed during the sampling process.



031317-01: CTE Classroom. Duplicates were collected and sent to an additional laboratory for quality assurance purposes.



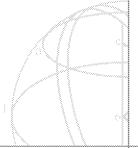
031317-02: CTE Classroom – Electrical Room.

Sky Valley Educational Center, March 2017 Air and Swab Sampling for PCBs – Update



Attachment B

Sample Figures



GENERAL NOTES

- ALL ABATEMENT RELATED ACTIVITIES AT THIS PROJECT SITE SHALL COMPLY WITH DIVISION 01 AND 02 AND SPECIFICALLY SECTION 028400 PCB ACTIVITIES. CONTRACTOR TO VERIFY ALL ITEMS SHOWN, LOCATIONS AND QUANTITIES OF MATERIALS TO BE REMOVED, AND DIMENSIONS PRIOR TO REMOVAL. ANY DEVIATIONS FROM THE SPECIFICATION THAT ARE DISCOVERED BY THE CONTRACTOR SHALL BE REPORTED TO THE OWNERS REPRESENTATIVE PRIOR TO REMOVAL. THE DRAWINGS ARE FOR DIAGRAMMATIC PURPOSES ONLY. GENERAL LOCATIONS OF PCB-CONTAINING MATERIALS ARE DEPICTED DIAGRAMMATICALLY ON THE DRAWINGS. THE REMAINING MATERIAL LOCATIONS ARE DESCRIBED TEXTUALLY ON THESE DRAWINGS. QUANTITIES OF HAZARDOUS MATERIALS LISTED ON THIS SHEET ARE CONSIDERED ACCURATE TO WITHIN +/- 10%. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND PERMITS FOR THE REMOVAL AND DISPOSAL OF THE QUANTITIES OF HAZARDOUS MATERIALS PROVIDED PLUS AN ADDITIONAL 10%. THE CONTRACTOR WILL BE COMPENSATED FOR QUANTITIES WHICH ARE GREATER THAN 110% OF THE TOTAL AND THE OWNER WILL DEDUCT FROM THE CONTRACT SUM QUANTITIES THAT ARE 90% OR LESS OF THE TOTAL.
- REMOVAL OF HAZARDOUS MATERIALS MAY COMPROMISE THE SECURITY OF THE SITE. THE CONTRACTOR IS FULLY RESPONSIBLE FOR MAINTAINING SITE SECURITY AND PUBLIC SAFETY THROUGHOUT THE PROJECT. SEE SPECIFICATIONS REGARDING SECURITY AND PUBLIC SAFETY
- 3. ABATEMENT CONTRACTOR TO COORDINATE ALL ACTIVITIES WITH ALL OTHER ONSITE WORK INCLUDING, BUT NOT LIMITED TO: SCHEDULE, ACCESS, STAGING, ETC. ABATEMENT CONTRACTOR TO REPORT LOCATIONS AND QUANTITIES OF ALL HAZARDOUS MATERIALS TO BE REMOVED, TO THE OWNERS REPRESENTATIVE PRIOR TO ABATEMENT/DEMOLITION.
- 4. THE CONTRACTOR SHALL REMOVE ALL ACCESSIBLE CAULKING IN ALL AREAS WITHOUT PERFORMING DEMOLITION OF BUILDING COMPONENTS.

KEY NOTES

REMOVE APPROX. 20 LF OF PCB-CONTAINING CAULKING LOCATED ON THE EXTERIOR AND INTERIOR METAL WINDOW FRAME ON THE GIRLS LOCKER ROOM NORTH PERIMETER WINDOW AS SHOWN.

REMOVE APPROX. 300 LF OF PCB-CONTAINING CAULKING ON THE EXTERIOR METAL WINDOW FRAMES ON ALL WINDOWS AT THE SOUTH AND WEST ELEVATIONS OF THE LARGE GYM BUILDING AS SHOWN. THIS INCLUDES CAULKING THAT EXISTS AROUND EACH WINDOW INFILL PANEL METAL FRAME TRANSITION ON THE WEST ELEVATION. THESE INFILL PANELS ARE CEMENT ASBESTOS

REMOVE APPROX. 40 LF OF PCB-CONTAINING CAULKING LOCATED ON INTERIOR SIDE OF THE THREE LOWER WINDOWS AND THE

UPPER WINDOW BANK EAST VERTICAL IN THE GATHERING PLACE

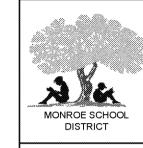
- REMOVE APPROX. 10 LF OF PCB-CONTAINING OF CAULK ON INTERIOR WINDOW FRAME VERTICALS IN THE CTE ROOM AS
- REMOVE APPROX. 18 LF OF PCB-CONTAINING OF CAULK ON INTERIOR SIDE OF NORTH EXTERIOR GIRLS LOCKER ENTRY DOOR
- REMOVE APPROX. 18 LF OF PCB-CONTAINING OF CAULK ON EXTERIOR SIDE OF NORTH CTE ENTRY DOOR AS SHOWN.
- REMOVE APPROX. 18 LF OF PCB-CONTAINING OF CAULK ON THE INTERIOR SIDE OF THE NORTHWEST PERIMETER ENTRY DOOR FRAME OF THE SMALL GYM AS SHOWN.

REMOVE APPROX. 500 LF OF PCB-CONTAINING CAULKING

LOCATED ON ALL VERTICAL STRUCTURAL METAL COLUMN TRANSITIONS THROUGHOUT THE EAST ELEVATION OF THE LARGE GYM AS SHOWN. THIS INCLUDES THE REMOVAL OF ALL CAULKING ON THE INTERIOR DEMISING WALL METAL BEAMS (VERTICAL AND HORIZONTAL) BETWEEN THE DAYCARE AND THE GATHERING PLACE/CAFETERIA AS SHOWN. THE CAULKING IS HEAVILY PAINTED THROUGHOUT THE WORK SCOPE AREA.

REMOVE APPROX. 780 LF OF PCB-CONTAINING CAULKING LOCATED ON ALL EXTERIOR VERTICAL STRUCTURAL METAL COLUMN TRANSITIONS THROUGHOUT THE LOWER WEST AND SOUTH ELEVATIONS OF THE LARGE GYM BUILDING AS SHOWN





CENTER ۵ BUILDING **EDUCATIONAL** ULKING VALLEY

SKY VALLEY EDUCATIONAL CENTER SHC 351

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HM1	1 OF
DWG NO.	SHEET NO
DATE:	JUNE 2016
CHECKED:	GN
DRAWN:	JHE
PROJECT:	41373.000
	44070.00

Storage in Girls Locker 030617-02 No PCBs Present Room 030617-03 No PCBs Present Girls Locker Room 030617-04 Small Gym No PCBs Present No PCBs Present 030617-05 Small Gym Electrical Room | Air Gathering Room 030617-06 No PCBs Present 030617-07 Large Gym Electrical Room | Air No PCBs Present SAMPLE DAMAGED / NOT 030617-09 CTE Electrical Room ANALYZED 030617-11 Small Gym Electrical Room | Wipe No PCBs Present Small Gym Electrical Room | Wipe 030617-12 No PCBs Present 030617-13 Large Gym Electrical Room | Wipe No PCBs Present Large Gym Electrical Room | Wipe Aroclor 1260 at 5.2 ug/100 cm2 030617-14 030617-15 CTE Electrical Room No PCBs Present

Figure provided by Monroe School District

Wipe

Aroclor 1260 at 8.5 ug/100 cm2

No PCBs Present

No PCBs Present

030617-16

031317-01

031317-02

CTE Electrical Room

CTE Electrical Room

CTE

environmental consulting

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GENERAL NOTES

- 1. ALL ABATEMENT RELATED ACTIVITIES AT THIS PROJECT SITE SHALL COMPLY WITH DIVISION 01 AND 02 AND SPECIFICALLY SECTION 028400 PCB ACTIVITIES. CONTRACTOR TO VERIFY ALL ITEMS SHOWN, LOCATIONS AND QUANTITIES OF MATERIALS TO BE REMOVED, AND DIMENSIONS PRIOR TO REMOVAL. ANY DEVIATIONS FROM THE SPECIFICATION THAT ARE DISCOVERED BY THE CONTRACTOR SHALL BE REPORTED TO THE OWNERS REPRESENTATIVE PRIOR TO REMOVAL. THE DRAWINGS ARE FOR DIAGRAMMATIC PURPOSES ONLY. GENERAL LOCATIONS OF PCB-CONTAINING MATERIALS ARE DEPICTED DIAGRAMMATICALLY ON THE DRAWINGS. THE REMAINING MATERIAL LOCATIONS ARE DESCRIBED TEXTUALLY ON THESE DRAWINGS. QUANTITIES OF HAZARDOUS MATERIALS LISTED ON THIS SHEET ARE CONSIDERED ACCURATE TO WITHIN +/- 10%. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND PERMITS FOR THE REMOVAL AND DISPOSAL OF THE QUANTITIES OF HAZARDOUS MATERIALS PROVIDED PLUS AN ADDITIONAL 10%. THE CONTRACTOR WILL BE COMPENSATED FOR QUANTITIES WHICH ARE GREATER THAN 110% OF THE TOTAL AND THE OWNER WILL DEDUCT FROM THE CONTRACT SUM QUANTITIES THAT ARE 90% OR LESS OF THE TOTAL.
- REMOVAL OF HAZARDOUS MATERIALS MAY COMPROMISE THE 2. SECURITY OF THE SITE. THE CONTRACTOR IS FULLY RESPONSIBLE FOR MAINTAINING SITE SECURITY AND PUBLIC SAFETY THROUGHOUT THE PROJECT. SEE SPECIFICATIONS REGARDING SECURITY AND PUBLIC SAFETY.
- 3. ABATEMENT CONTRACTOR TO COORDINATE ALL ACTIVITIES WITH ALL OTHER ONSITE WORK INCLUDING, BUT NOT LIMITED TO: SCHEDULE, ACCESS, STAGING, ETC. ABATEMENT CONTRACTOR TO REPORT LOCATIONS AND QUANTITIES OF ALL HAZARDOUS MATERIALS TO BE REMOVED, TO THE OWNERS REPRESENTATIVE PRIOR TO ABATEMENT/DEMOLITION.
- 4. THE CONTRACTOR SHALL REMOVE ALL ACCESSIBLE CAULKING IN ALL AREAS WITHOUT PERFORMING DEMOLITION OF BUILDING COMPONENTS.

KEY NOTES

- REMOVE APPROX. 500 LF OF PCB-CONTAINING CAULKING LOCATED ON INTERIOR PERIMETER METAL WINDOW FRAME TO BRICK TRANSITION VERTICALS IN EACH OF CLASSROOMS 1-20 AS
- REMOVE APPROX. 1,400 LF OF PCB-CONTAINING CAULKING ON THE INTERIOR AND EXTERIOR SIDES OF THE CEMENT ASBESTOS BOARD (CAB) WINDOW INFILL PANELS. THE CAULKING FILLS THE GAP BETWEEN THE METAL WINDOW FRAME AND CAB TRANSITION IN EACH OF CLASSROOMS 1-20 AS SHOWN.

LEGEND

VERTICAL CAULKING RUN

→ HORIZONTAL CAULKING RUN

SAMPLE LOCATION

Air/Wipe Result Location Sample 030617-10 West Pod Mezzanine No PCBs Present 030617-17 West Pod Mezzanine Wipe No PCBs Present West Pod Mezzanine No PCBs Present





FULCRUM environmental consulting

Figure provided by Monroe School District

NOT TO SCALE

ED_004522_00040018-00015

OF

MONROE SCHOOL DISTRICT

POD/LIBRBAY BUILDING CAULKING ABATEMENT PLAN **EDUCATIONAL CENTER** VALLEY

SKY VALLEY
EDUCATIONAL CENTER RT COLUMBIA STREET ROE, WASHINGTON 351 SHO MON

CHECKED: JUNE 2016 DWG NO. HM2

LEGEND

Sample Location ##

Sample Air/Wipe Result Location Room F, Annex Building Air No PCBs Present

GENERAL NOTES

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- 4. THE CONTRACTOR SHALL REMOVE ALL ACCESSIBLE CAULKING IN ALL AREAS WITHOUT PERFORMING DEMOLITION OF BUILDING COMPONENTS.

KEY NOTES

REMOVE APPROX. 200 LF OF PCB-CONTAINING CAULKING LOCATED ON INTERIOR PERIMETER METAL WINDOW FRAME

- TRANSITIONS. THIS INCLUDES REMOVAL OF CAULKING WHICH EXISTS ON EXTERIOR METAL WINDOW FRAME TRANSITIONS ON THE NORTH AND SOUTH BUILDING ELEVATION WINDOWS AS
- REMOVE APPROX. 80 LF OF PCB-CONTAINING CAULKING ON WOOD CEILING/SOFFIT BEAMS AT PERIMETER WALL/CEILING TRANSITIONS IN ROOMS E, F AND PREP ROOM F AS SHOWN.

REMOVE APPROX. 300 LF OF PCB AND ASBESTOS-CONTAINING TAN CAULKING LOCATED ON VARIOUS VERTICAL AND HORIZONTAL

METAL WINDOW FRAME TRANSITIONS ON THE NORTH AND SOUTH ELEVATIONS OF THE ANNEX BUILDING AS SHOWN.

LEGEND

- VERTICAL CAULKING RUN
- CAULKING ON BEAM

HORIZONTAL CAULKING RUN



PLAN EX BUILDING ABATEMENT ANNEX

EDUCATIONAL CENTER

VALLEY

SKY

SKY VALLEY EDUCATIONAL CENTER NRT COLUMBIA STREET IROE, WASHINGTON 351 SHO MON

НМ4	4 OF
DWG NO.	SHEET NO.
DATE:	JUNE 2016
CHECKED:	GM
DRAWN:	JHD
PROJECT:	41373.000

NOT TO SCALE

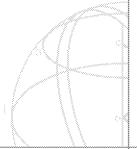


ED_004522_00040018-00016



Attachment C

ALS Global Cincinnati Laboratory Report Initial Sampling Event – March 6, 2017





09-Mar-2017

Ryan Mathews Fulcrum Environmental Consulting 406 N. 2nd Street Yakima, WA 98901

Tel: (509) 574-0839

Fax:

Re: Sky Valley Edu Center; PN 17-2070 Work Order: 1703194

Dear Ryan,

ALS Environmental received 22 samples on 07-Mar-2017 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 17.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

R do N ieman

Electronically approved by: Rob Nieman

Rob Nieman Project Manager

> ADDRESS 4386 Glandale Millord Rd. Clinchnafi. Ohio 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347 ALS GROUP USA, CORP. Part of the ALS Group. An ALS Limited Company

www.alsolobal.com

NORT SOLUTIONS MORE PARTIES

Client: Fulcrum Environmental Consulting
Project: Sky Valley Edu Center, PN 17-2070

Work Order: 1703194

Work Order Sample Summary

Lab Samp II	Client Sample ID	<u>Matrix</u>	Tag Number	Collection Date	Date Received	Hold
1703194-01	030617-01	Air		3/6/2017	3/7/2017	
1703194-02	030617-02	Air		3/6/2017	3/7/2017	
1703194-03	030617-03	Air		3/6/2017	3/7/2017	
1703194-04	030617-04	Air		3/6/2017	3/7/2017	
1703194-05	030617-05	Air		3/6/2017	3/7/2017	
1703194-06	030617-06	Air		3/6/2017	3/7/2017	
1703194-07	030617-07	Air		3/6/2017	3/7/2017	✓
1703194-08	030617-08	Air		3/6/2017	3/7/2017	
1703194-09	030617-09	Air		3/6/2017	3/7/2017	✓
1703194-10	030617-10	Air		3/6/2017	3/7/2017	
1703194-11	030617-11	Wipe		3/6/2017	3/7/2017	
1703194-12	030617-12	Wipe		3/6/2017	3/7/2017	
1703194-13	030617-13	Wipe		3/6/2017	3/7/2017	
1703194-14	030617-14	Wipe		3/6/2017	3/7/2017	
1703194-15	030617-15	Wipe		3/6/2017	3/7/2017	
1703194-16	030617-16	Wipe		3/6/2017	3/7/2017	
1703194-17	030617-17	Wipe		3/6/2017	3/7/2017	
1703194-18	030617-18	Wipe		3/6/2017	3/7/2017	
1703194-19	030617-19	Wipe		3/6/2017	3/7/2017	
1703194-20	030617-20	Wipe		3/6/2017	3/7/2017	
1703194-21	030617-21	Air		3/6/2017	3/7/2017	
1703194-22	030617-22	Air		3/6/2017	3/7/2017	

Client: Fulcrum Environmental Consulting Work Order: 1703194

Project: Sky Valley Edu Center, PN 17-2070

Analytical Results

 Lab ID:
 1703194-01A
 Collection Date:
 3/6/2017

 Client Sample ID:
 030617-01
 Matrix:
 AIR

Analyses

PCBS BY EPA TO-10		Method: ETO10A	Air Volume (L): 2100	Analyst: JEA
Date Analyzed: 3/8/2017 17:24	μg/sample	Reporting Limit µg/sample	mg/m3	
Aroclor 1016	ND	0.10	<0.00048	
Aroclor 1221	ND	0.10	<0.000048	
Aroclor 1232	ND	0.10	<0.00048	
Aroclor 1242	ND	0.10	<0.00048	
Aroclor 1248	ND	0.10	<0.00048	
Aroclor 1254	ND	0.10	<0.00048	
Aroclor 1260	ND	0.10	<0.00048	
Aroclor 1262	ND	0.10	<0.000048	
Aroclor 1268	ND	0.10	<0.00048	

 Lab ID:
 1703194-02A
 Collection Date:
 3/6/2017

 Client Sample ID:
 030617-02
 Matrix:
 AIR

Analyses

PCBS BY EPA TO-10		Method: ETO10A	Air Volume (L): 2100	Analyst: JEA
Date Analyzed: 3/8/2017 17:38	μg/sample	Reporting Limit µg/sample	mg/m3	
Aroclor 1016	ND	0.10	<0.000048	
Aroclor 1221	ND	0.10	<0.00048	
Aroclor 1232	ND	0.10	<0.00048	
Aroclor 1242	ND	0.10	<0.00048	
Aroclor 1248	ND	0.10	<0.00048	
Aroclor 1254	ND	0.10	<0.00048	
Aroclor 1260	ND	0.10	<0.00048	
Aroclor 1262	ND	0.10	<0.00048	
Aroclor 1268	ND	0.10	<0.00048	

Client: Fulcrum Environmental Consulting Work Order: 1703194

Project: Sky Valley Edu Center, PN 17-2070

Analytical Results

 Lab ID:
 1703194-03A
 Collection Date: 3/6/2017

 Client Sample ID:
 030617-03
 Matrix: AIR

Analyses

PCBS BY EPA TO-10		Method: ETO10A	Air Volume (L): 2100	Analyst: JEA
Date Analyzed: 3/8/2017 17:52	µg/sample	Reporting Limit µg/sample	mg/m3	
Aroclor 1016	ND ND	0.10	<0.00048	
Aroclor 1221	ND	0.10	<0.000048	
Aroclor 1232	ND	0.10	<0.00048	
Aroclor 1242	ND	0.10	<0.00048	
Aroclor 1248	ND	0.10	<0.00048	
Aroclor 1254	ND	0.10	<0.00048	
Aroclor 1260	ND	0.10	<0.00048	
Aroclor 1262	ND	0.10	<0.00048	
Aroclor 1268	ND	0.10	<0.000048	

 Lab ID:
 1703194-04A
 Collection Date: 3/6/2017

 Client Sample ID:
 030617-04
 Matrix: AIR

Analyses

PCBS BY EPA TO-10		Method: ETO10A	Air Volume (L): 2100	Analyst: JEA
Date Analyzed: 3/8/2017 18:06	μg/sample	Reporting Limit µg/sample	mg/m3	
Aroclor 1016	ND	0.10	<0.000048	
Aroclor 1221	ND	0.10	<0.00048	
Aroclor 1232	ND	0.10	<0.00048	
Aroclor 1242	ND	0.10	<0.00048	
Aroclor 1248	ND	0.10	<0.00048	
Aroclor 1254	ND	0.10	<0.00048	
Aroclor 1260	ND	0.10	<0.00048	
Aroclor 1262	ND	0.10	<0.00048	
Aroclor 1268	ND	0.10	<0.00048	

Client: Fulcrum Environmental Consulting Work Order: 1703194

Project: Sky Valley Edu Center, PN 17-2070

Analytical Results

 Lab ID:
 1703194-05A
 Collection Date:
 3/6/2017

 Client Sample ID:
 030617-05
 Matrix:
 AIR

Analyses

PCBS BY EPA TO-10		Method: ETO10A	Air Volume (L): 2100	Analyst: JEA
Date Analyzed: 3/8/2017 18:21		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Aroclor 1016	ND	0.10	<0.000048	
Aroclor 1221	ND	0.10	<0.000048	
Aroclor 1232	ND	0.10	<0.00048	
Aroclor 1242	ND	0.10	<0.00048	
Aroclor 1248	ND	0.10	<0.00048	
Aroclor 1254	ND	0.10	<0.00048	
Aroclor 1260	ND	0.10	<0.00048	
Aroclor 1262	ND	0.10	<0.00048	
Aroclor 1268	ND	0.10	<0.00048	

 Lab ID:
 1703194-06A
 Collection Date:
 3/6/2017

 Client Sample ID:
 030617-06
 Matrix:
 AIR

Analyses

	Method: ETO10A	Air Volume (L): 2100	Analyst: JEA
μg/sample	Reporting Limit μg/sample	mg/m3	
ND	0.10	<0.00048	
	ND ND ND ND ND ND ND	Reporting Limit μg/sample μg/sample ND 0.10 ND 0.10	Reporting Limit μg/sample μg/sample mg/m3 ND 0.10 <0.000048

Client: Fulcrum Environmental Consulting Work Order: 1703194

Project: Sky Valley Edu Center, PN 17-2070

Analytical Results

 Lab ID:
 1703194-08A
 Collection Date: 3/6/2017

 Client Sample ID:
 030617-08
 Matrix: AIR

Analyses

PCBS BY EPA TO-10		Method: ETO10A	Air Volume (L): 2050	Analyst: JEA
Date Analyzed: 3/8/2017 19:03	µg/sample	Reporting Limit µg/sample	mg/m3	
Aroclor 1016	ND ND	0.10	<0.00049	
Aroclor 1221	ND	0.10	<0.000049	
Aroclor 1232	ND	0.10	<0.00049	
Aroclor 1242	ND	0.10	<0.00049	
Aroclor 1248	ND	0.10	<0.00049	
Aroclor 1254	ND	0.10	<0.00049	
Aroclor 1260	ND	0.10	<0.00049	
Aroclor 1262	ND	0.10	<0.000049	
Aroclor 1268	ND	0.10	<0.000049	

 Lab ID:
 1703194-10A
 Collection Date:
 3/6/2017

 Client Sample ID:
 030617-10
 Matrix:
 AIR

Analyses

PCBS BY EPA TO-10		Method: ETO10A	Air Volume (L): 2050	Analyst: JEA
Date Analyzed: 3/8/2017 19:32	μg/sample	Reporting Limit µg/sample	mg/m3	
Aroclor 1016	ND	0.10	<0.000049	
Aroclor 1221	ND	0.10	<0.000049	
Aroclor 1232	ND	0.10	<0.00049	
Aroclor 1242	ND	0.10	<0.00049	
Aroclor 1248	ND	0.10	<0.00049	
Aroclor 1254	ND	0.10	<0.00049	
Aroclor 1260	ND	0.10	<0.00049	
Aroclor 1262	ND	0.10	<0.00049	
Aroclor 1268	ND	0.10	<0.00049	

Client: Fulcrum Environmental Consulting Work Order: 1703194

Project: Sky Valley Edu Center, PN 17-2070

Analytical Results

 Lab ID:
 1703194-21A
 Collection Date:
 3/6/2017

 Client Sample ID:
 030617-21
 Matrix:
 AIR

Analyses

PCBS BY EPA TO-10		Method: ETO10A	Air Volume (L): 0	Analyst: JEA
Date Analyzed: 3/8/2017 19:46		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Aroclor 1016	ND	0.10	NA	
Aroclor 1221	ND	0.10	NA	
Aroclor 1232	ND	0.10	NA	
Aroclor 1242	ND	0.10	NA	
Aroclor 1248	ND	0.10	NA	
Aroclor 1254	ND	0.10	NA	
Aroclor 1260	ND	0.10	NA	
Aroclor 1262	ND	0.10	NA	
Aroclor 1268	ND	0.10	NA	

 Lab ID:
 1703194-22A
 Collection Date:
 3/6/2017

 Client Sample ID:
 030617-22
 Matrix:
 AIR

Analyses

PCBS BY EPA TO-10		Method: ETO10A	Air Volume (L): 0	Analyst: JEA
Date Analyzed: 3/8/2017 20:00	μg/sample	Reporting Limit µg/sample	mg/m3	
Aroclor 1016	ND	0.10	NA	
Aroclor 1221	ND	0.10	NA	
Aroclor 1232	ND	0.10	NA	
Aroclor 1242	ND	0.10	NA	
Aroclor 1248	ND	0.10	NA	
Aroclor 1254	ND	0.10	NA	
Aroclor 1260	ND	0.10	NA	
Aroclor 1262	ND	0.10	NA	
Aroclor 1268	ND	0.10	NA	

Client: Fulcrum Environmental Consulting Work Order: 1703194

Project: Sky Valley Edu Center, PN 17-2070

Analytical Results

 Lab ID:
 1703194-11A
 Collection Date:
 3/6/2017

 Client Sample ID:
 030617-11
 Matrix:
 WIPE

Analyses

PCBS WIPE		Method: SW8082	Area 100 cm2	Analyst: JEA
Date Analyzed: 3/7/2017 16:29		Reporting Limit		
	μg/sample	μg/sample	ug/100cm2	
Aroclor 1016	ND	1.0	<1.0	
Aroclor 1221	ND	1.0	<1.0	
Aroclor 1232	ND	1.0	<1.0	
Aroclor 1242	ND	1.0	<1.0	
Aroclor 1248	ND	1.0	<1.0	
Aroclor 1254	ND	1.0	<1.0	
Aroclor 1260	ND	1.0	<1.0	
Aroclor 1262	ND	1.0	<1.0	
Aroclor 1268	ND	1.0	<1.0	

 Lab ID:
 1703194-12A
 Collection Date: 3/6/2017

 Client Sample ID:
 030617-12
 Matrix: WIPE

Analyses

PCBS WIPE		Method: SW8082	Area 100 cm2	Analyst: JEA
Date Analyzed: 3/7/2017 16:43		Reporting Limit		
	μg/sample	μg/sample	ug/100cm2	
Aroclor 1016	ND	1.0	<1.0	
Aroclor 1221	ND	1.0	<1.0	
Aroclor 1232	ND	1.0	<1.0	
Aroclor 1242	ND	1.0	<1.0	
Aroclor 1248	ND	1.0	<1.0	
Aroclor 1254	ND	1.0	<1.0	
Aroclor 1260	ND	1.0	<1.0	
Aroclor 1262	ND	1.0	<1.0	
Aroclor 1268	ND	1.0	<1.0	

Client: Fulcrum Environmental Consulting Work Order: 1703194

Project: Sky Valley Edu Center, PN 17-2070

Analytical Results

 Lab ID:
 1703194-13A
 Collection Date:
 3/6/2017

 Client Sample ID:
 030617-13
 Matrix:
 WIPE

Analyses

PCBS WIPE		Method: SW8082	Area 100 cm2	Analyst: JEA
Date Analyzed: 3/7/2017 16:57		Reporting Limit		
	μg/sample	μg/sample	ug/100cm2	
Aroclor 1016	ND	1.0	<1.0	
Aroclor 1221	ND	1.0	<1.0	
Aroclor 1232	ND	1.0	<1.0	
Aroclor 1242	ND	1.0	<1.0	
Aroclor 1248	ND	1.0	<1.0	
Aroclor 1254	ND	1.0	<1.0	
Aroclor 1260	ND	1.0	<1.0	
Aroclor 1262	ND	1.0	<1.0	
Aroclor 1268	ND	1.0	<1.0	

 Lab ID:
 1703194-14A
 Collection Date: 3/6/2017

 Client Sample ID:
 030617-14
 Matrix: WIPE

Analyses

PCBS WIPE		Method: SW8082	Area 100 cm2	Analyst: JEA
Date Analyzed: 3/7/2017 17:12		Reporting Limit		
	μg/sample	μg/sample	ug/100cm2	
Aroclor 1016	ND	1.0	<1.0	
Aroclor 1221	ND	1.0	<1.0	
Aroclor 1232	ND	1.0	<1.0	
Aroclor 1242	ND	1.0	<1.0	
Aroclor 1248	ND	1.0	<1.0	
Aroclor 1254	ND	1.0	<1.0	
Aroclor 1260	5.2	1.0	5.2	
Aroclor 1262	ND	1.0	<1.0	
Aroclor 1268	ND	1.0	<1.0	

Client: Fulcrum Environmental Consulting Work Order: 1703194

Project: Sky Valley Edu Center, PN 17-2070

Analytical Results

 Lab ID:
 1703194-15A
 Collection Date:
 3/6/2017

 Client Sample ID:
 030617-15
 Matrix:
 WIPE

Analyses

PCBS WIPE		Method: SW8082	Area 100 cm2	Analyst: JEA
Date Analyzed: 3/7/2017 17:26		Reporting Limit		
	μg/sample	μg/sample	ug/100cm2	
Aroclor 1016	ND	1.0	<1.0	
Aroclor 1221	ND	1.0	<1.0	
Aroclor 1232	ND	1.0	<1.0	
Aroclor 1242	ND	1.0	<1.0	
Aroclor 1248	ND	1.0	<1.0	
Aroclor 1254	ND	1.0	<1.0	
Aroclor 1260	ND	1.0	<1.0	
Aroclor 1262	ND	1.0	<1.0	
Aroclor 1268	ND	1.0	<1.0	

 Lab ID:
 1703194-16A
 Collection Date:
 3/6/2017

 Client Sample ID:
 030617-16
 Matrix:
 WIPE

Analyses

PCBS WIPE		Method: SW8082	Area 100 cm2	Analyst: JEA
Date Analyzed: 3/7/2017 17:40		Reporting Limit		
	μg/sample	μg/sample	ug/100cm2	
Aroclor 1016	ND	1.0	<1.0	
Aroclor 1221	ND	1.0	<1.0	
Aroclor 1232	ND	1.0	<1.0	
Aroclor 1242	ND	1.0	<1.0	
Aroclor 1248	ND	1.0	<1.0	
Aroclor 1254	ND	1.0	<1.0	
Aroclor 1260	8.5	1.0	8.5	
Aroclor 1262	ND	1.0	<1.0	
Aroclor 1268	ND	1.0	<1.0	

Client: Fulcrum Environmental Consulting Work Order: 1703194

Project: Sky Valley Edu Center, PN 17-2070

Analytical Results

 Lab ID:
 1703194-17A
 Collection Date:
 3/6/2017

 Client Sample ID:
 030617-17
 Matrix:
 WIPE

Analyses

PCBS WIPE		Method: SW8082	Area 100 cm2	Analyst: JEA
Date Analyzed: 3/7/2017 17:54		Reporting Limit		
	μg/sample	μg/sample	ug/100cm2	
Aroclor 1016	ND	1.0	<1.0	
Aroclor 1221	ND	1.0	<1.0	
Aroclor 1232	ND	1.0	<1.0	
Aroclor 1242	ND	1.0	<1.0	
Aroclor 1248	ND	1.0	<1.0	
Aroclor 1254	ND	1.0	<1.0	
Aroclor 1260	ND	1.0	<1.0	
Aroclor 1262	ND	1.0	<1.0	
Aroclor 1268	ND	1.0	<1.0	

 Lab ID:
 1703194-18A
 Collection Date: 3/6/2017

 Client Sample ID:
 030617-18
 Matrix: WIPE

Analyses

PCBS WIPE		Method: SW8082	Area 100 cm2	Analyst: JEA
Date Analyzed: 3/7/2017 18:09		Reporting Limit		
	μg/sample	μg/sample	ug/100cm2	
Aroclor 1016	ND	1.0	<1.0	
Aroclor 1221	ND	1.0	<1.0	
Aroclor 1232	ND	1.0	<1.0	
Aroclor 1242	ND	1.0	<1.0	
Aroclor 1248	ND	1.0	<1.0	
Aroclor 1254	ND	1.0	<1.0	
Aroclor 1260	ND	1.0	<1.0	
Aroclor 1262	ND	1.0	<1.0	
Aroclor 1268	ND	1.0	<1.0	

Client: Fulcrum Environmental Consulting Work Order: 1703194

Project: Sky Valley Edu Center, PN 17-2070

Analytical Results

 Lab ID:
 1703194-19A
 Collection Date:
 3/6/2017

 Client Sample ID:
 030617-19
 Matrix:
 WIPE

Analyses

PCBS WIPE		Method: SW8082	Area 0 cm2	Analyst: JEA
Date Analyzed: 3/7/2017 18:23		Reporting Limit		
	μg/sample	μg/sample	ug/100cm2	
Aroclor 1016	ND	1.0	NA	
Aroclor 1221	ND	1.0	NA	
Aroclor 1232	ND	1.0	NA	
Aroclor 1242	ND	1.0	NA	
Aroclor 1248	ND	1.0	NA	
Aroclor 1254	ND	1.0	NA	
Aroclor 1260	ND	1.0	NA	
Aroclor 1262	ND	1.0	NA	
Aroclor 1268	ND	1.0	NA	

 Lab ID:
 1703194-20A
 Collection Date:
 3/6/2017

 Client Sample ID:
 030617-20
 Matrix:
 WIPE

Analyses

PCBS WIPE		Method: SW8082	Area 0 cm2	Analyst: JEA
Date Analyzed: 3/7/2017 18:37		Reporting Limit		
	μg/sample	µg/sample	ug/100cm2	
Aroclor 1016	ND	1.0	NA	
Aroclor 1221	ND	1.0	NA	
Aroclor 1232	ND	1.0	NA	
Aroclor 1242	ND	1.0	NA	
Aroclor 1248	ND	1.0	NA	
Aroclor 1254	ND	1.0	NA	
Aroclor 1260	ND	1.0	NA	
Aroclor 1262	ND	1.0	NA	
Aroclor 1268	ND	1.0	NA	

Client: Fulcrum Environmental Consulting
Project: Sky Valley Edu Center; PN 17-2070

Analytical Comments

Work Order: 1703194

Method		Туре:	SampID	SeqNo	Analysis	Comments
Batch	<u>41723</u>					
		Analysis	1703194-01A	1458967	PCBs by EPA TO-10	Surrogate failed due to sample interference.

ALS Environmental

Client: Fulcrum Environmental Consulting

Work Order: 1703194

Project: Sky Valley Edu Center, PN 17-2070

QC BATCH REPORT

Date: 09-Mar-17

Batch ID: 41721	Instrument ID: GC3			Method	l: SW8082						
MBLK Sample ID: Client ID:	MBLK-41721-41721	Run IC	D: GC3_17	′0307A		Jnits: μg/s qNo: 145 8		Analysis Prep Date: 3/7	s Date: 3/7/ / 2017	2017 03:4 DF: 1	6 PM
Analyte	Res	sult	PQL	SPK Val	SPK Ref Value	%RE	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	1	ND	1.0								
Aroclor 1221	I	ΝD	1.0								
Aroclor 1232		VD.	1.0								
Aroclor 1242	!	ΝD	1.0								
Aroclor 1248		ND	1.0								
Aroclor 1254		ND	1.0								
Aroclor 1260		ΝD	1.0								
Aroclor 1262	I	۷D	1.0								
Aroclor 1268	ļ	ND	1.0								
Surr: Decachlorobiphen	<i>yl</i> 0.4	48	0	0.5	0	89.6	14.6-145	5 ()		
Surr: Tetrachloro-m-xyle	ene 0.4	24	0	0.5	0	84.8	3 24.4-141	')		
LCS Sample ID:	LCS-41721-41721				L	Jnits: µg/s	ample	Analysis	s Date: 3/7/	2017 04:0	0 PM
Client ID:		Run IE	D: GC3_17	0307A		qNo: 145		Prep Date: 3/7		DF: 1	
Analyte	Res	sult	PQL	SPK Val	SPK Ref Value	%RE	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	16	.62	1.0	20	0	83.1	38.1-135	5 ()		
Surr: Decachlorobiphen	<i>yl</i> 0.8	23	0	1	0	82.3	14.6-145	5 ()		
Surr: Tetrachloro-m-xyle	ene 0.7	94	0	1	0	79.4	24.4-141	1 ()		
LCSD Sample ID:	LCSD-41721-41721				Ĺ	Jnits: µg/s	ample	Analysis	s Date: 3/7/	2017 04:1	5 PM
Client ID:		Run IE	D: GC3_17	'0307A		qNo: 145		Prep Date: 3/7		DF: 1	
					SPK Ref		Control	RPD Ref		RPD Limit	
Analyte	Res	sult	PQL	SPK Val	Value	%RE	C Limit	Value	%RPD	Limit	Qual
Aroclor 1260	12	46	1.0	20	0	62.3	38.1-135	5 16.62	2 28.6	20	R

The follow	ving samp	les were	analyzed	in this	batch:
------------	-----------	----------	----------	---------	--------

Surr: Tetrachloro-m-xylene

Note:

1703194-11A	1703194-12A	1703194-13A	
1703194-14A	1703194-15A	1703194-16A	
1703194-17A	1703194-18A	1703194-19A	
1703194-20A			

58.9

24.4-141

0.794

29.6

See Qualifiers Page for a list of Qualifiers and their explanation.

0.589

0

QC BATCH REPORT

Client: Fulcrum Environmental Consulting

Work Order: 1703194

Project: Sky Valley Edu Center, PN 17-2070

Batch ID: 41723 Inst	trument ID: GC3		Method:	ETO10A					
MBLK Sample ID: MBLF): GC3_1	70308A		its: µg/sai lo: 14589		Analysis Date: 3/6 Prep Date: 3/7/2017	8/2017 04:5 DF: 1	55 PM
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value %RPD	RPD Limit	Qua
Aroclor 1016	ND	0.10							
Aroclor 1221	ND	0.10							
Aroclor 1232	ND	0.10							
Aroclor 1242	ND	0.10							
Aroclor 1248	ND	0.10							
Aroclor 1254	ND	0.10							_
Aroclor 1260	ND	0.10							
Aroclor 1262	ND ND	0.10							-
Aroclor 1268	ND	0.10							
Surr: Decachlorobiphenyl	0.0404	0	0.05	0	80.8	41.6-116	0		_
Surr: Tetrachloro-m-xylene	0.0394	0	0.05	0	78.8	45.7-110	0		
LCS Sample ID: LCS-	41723-41723			Un	its: µg/sai	mple	Analysis Date: 3/	8/2017 05:0)9 PM
Client ID:	Run II	CGC3_1	70308A		lo: 14589	7	Prep Date: 3/7/2017	DF: 1	
				SPK Ref		Control	RPD Ref	RPD Limit	
Analyte	Result	PQL	SPK Val	Value	%REC	Limit	Value %RPD	Limit	Qua
Aroclor 1260	0.9674	0.10	1	0	96.7	50.3-120	0		
Surr: Decachlorobiphenyl	0.0372	0	0.05	0	74.4	35.7-104	0		
Surr: Tetrachloro-m-xylene	0.044	0	0.05	0	88	45.7-110	0		
The following samples were ar	nalyzed in this batch:	1	703194-01A	17031	94-02A	170	3194-03A		
-			703194-04A	17031	94-05A	170	3194-06A		
			703194-07A		94-08A		3194-09A		
		_ 1	703194-10A	17031	94-21A	170	3194-22A		

Fulcrum Environmental Consulting Client: **QUALIFIERS,** Sky Valley Edu Center, PN 17-2070 Project: ACRONYMS, UNITS

1703194 WorkOrder:

Workorder.	1700174
Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
В	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
Н	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
Acronym	Description
DUP	Method Duplicate
Е	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method
Units Reported	Description

μg/sample

QF Page 1 of 1

ALS Environmental

Sample Receipt Checklist

Client Name: FUL	.CRUM-Y	<u>AKIMA</u>				Date/Time	Receive	d: <u>07</u> -	Mar-17	7 00:00			
Work Order: 170	3194					Received b	y:	RD	N				
Checklist completed	by: Chri	isGibson		07-Mar-17	-	Reviewed by:	Chi:	sGibson ture				07-Mar	
Matrices: Carrier name: <u>Ul</u>	<u> </u>		1										
Shipping container/co	ooler in god	od condition?		Yes	V	No 🗌	No	t Present					
Custody seals intact	on shippinç	g container/cooler?		Yes		No 🗌	No	t Present	✓				
Custody seals intact	on sample	bottles?		Yes		No 🗌	No	t Present	✓				
Chain of custody pre	sent?			Yes	✓	No 🗌							
Chain of custody sign	ned when r	elinquished and rec	eived?	Yes	V	No 🗌							
Chain of custody agr	ees with sa	ample labels?		Yes	✓	No 🗌							
Samples in proper co	ntainer/bo	ttle?		Yes	V	No 🗌							
Sample containers in	tact?			Yes	✓	No 🗌							
Sufficient sample vo	ume for inc	dicated test?		Yes	V	No 🗌							
All samples received	within hold	ling time?		Yes	✓	No 🗌							
Container/Temp Blar	nk temperat	ture in compliance?		Yes	✓	No 🗌							
Temperature(s)/Ther	mometer(s	s):		4.0									
Cooler(s)/Kit(s):													
Water - VOA vials ha	ve zero he	eadspace?		Yes		No 🗵	No VO	A vials sub	mitted				
Water - pH acceptab	le upon rec	ceipt?		Yes		No 🔤	N/A						
pH adjusted? pH adjusted by:				Yes		No 💹	N/A						
Login Notes:													
				<u> </u>	==								
Client Contacted:			Date Contacted	:		Person	ı Contact	ed:					
Contacted By:			Regarding:										
Comments:													
CorrectiveAction:										SI	RC Pa	nge 1 o	f 1

Field Chain-of-Custody Record

Page		of	2
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39147



Ship To: 4388 Glendale Milford Rd. Cincinnati, Ohio 45242 (513) 733-5336 Phone:

(ALS)	Phone: Fax:	Cincinnati, Ohio 45: (513) 733-5336 (513) 733-5347	242	1703	519	4			 EGULAR Status	ĸ		RESU	LTS REGI	JIRED BY: (Date)]] WORTO SE	mząch	3/9	î 2017
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Person to Contact,	Ryan M	dnovs+levi W	l yatt eilinga	idress (if differe	n():			*	ŝ	Ö								
lexepnone ():		efokom.net 40kovm.net -574-0839						Preservation Key	Sample Type / Metrix Key Abbr.	Sample Containers	. Ç							
Alternate Contac	Ľ	Sample ID /	O				773		8	8	Ŕ							
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		y-A / Stormy									\ \ \							
3 <u>030617-03</u>	Girl LR	(-A /Giris L	<u>xkes Roo</u> s	Ω														
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7080617-07	CTE - A	<u> </u>	(1555DOM)								Y							
5	5	ym Electrical Room		âµm							Y							
9806U-09	CTEÉLEC	/ Electrical Reco	n'eCTÉ								Y							
		z_/Web-Pad_l			V	7					1							
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Property S. Key	1-10 2	-1780, 3-H3O,	4-N ₄ O) 5-	Lugo	8 - Her (50),	7 - 169	N/Dividues	8 - Criss	8	470		attis Key	Ą.,	v B	Buk S	- 308 1	N - Water	
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Ship To: ALS Environmental 4388 Glendale Milford Rd. Cincinnati, Ohio 45242

Field Chain-of-Custody Record Page 2 of 3

39148

Date: 3/le/2017 Company Names: Infections Analysis and Prestross Origins No. 17-2070 Analysis Requirements	Phone: (513) 733-5336 1 703 ALS Fax: (513) 733-5347	3/4			EGULAR Status	X	RUSH Status	RESULT CONTACT	S REQUIRES) SY: (Date) MEAL PRIOR TO S	Thursda	y 3412017
Coopery Here Enterior Bituitionnents Project No. 17-2070 Additional State No. 2016 67 Subject State	Dale: 3/6/2017 Purchase Order No.:				H VAP:		YES	_ NO		BUSTR:	[]]YE\$	() NO
Person to Content Ryan Mathews 3 Levi Layott sing Address (Fatheren): Emil Address (Fatheren): Emil Address (Fatheren): Emil Address (Fatheren): ALS LED NO Sample ID / Description Date Time I		270							ANALY	SIS REQI	JESTEC)
COCOT-11 Elec Sm Gym metal transformer size 3/6/17 X X X X X X X X X	Person to Contact: Rym Mathews 3 Levi Wyatt Billing Address (if different Address: 1 Mathews 2 Chkrism.net 1 Pycatte Biblicom.ret 1 Telephone (): 429-574-0839		Center	rvatton Key *	le Type / Matrix Key Abbr.	ample Containers	7.080 -080					
COCOT-11 Elec Sm Gym metal transformer size 3/6/17 X X X X X X X X X		Date	Time		e 8	ರ						
Cocott-12 Elec Sm Gym metal transformer top X Sepa Elec Lig Gym metal transformer side X Sepa Elec Lig Gym Metal tran	·											
15 ORDIT-13 Gregor Elec Lig Grym notal final former side	12 120617-12 Flee Son Gran I metal tour france too	521 - 1 1 1										
17 O20017-15 CTE ELEC RM model francisching X X X X X X X X X	15 march 7-12 Garas Flori to Gum/metal-Banchomer side											
15 COCOT-15 CTE FIEC RM modal frankfurner X	14 raniz-14 Per (m. 600-11 consider floor											
CROST-16 CTE FIRC Rm / Concrete Floor CROST-17 West Pod Mezz / Metal transformer size CROST-19 West Pod Mezz / Metal transformer size X	15/20/1-15 CTE Elec on I what from home											
OBON-10 West Pod mezz / Metal mandamer size OBON-10 West Pod mezz / Metal mezz / Metal mandamer size OBON-10 West Pod metal mandamer size OBON-10 We	1/ BOWN-16 CTF Fler Don / CANCEL PLACE											
OBOST-19 West to mezz metal transformer side. OBOST-19 West to lonk Note: 10 x 10 template WIPE 100 cm² total area Preservetor Key: 1-Hall 2-HeQ, 3-H,SQ, 4-HeAH, 5-He,SQ, 6-HeHSQ, 7-HeAH, side 8-Other 9-4°C Railrage to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. Railragistand By: Time / Date Racewed By: Signature) Preservetor Temp / College METHOD NEW COURSE NEW NEW NEW NEW NEW NEW NEW NEW NEW NE	J (Park (J-17) West-Park Mezzy Lavead from											
OCONT-19 Serield Blank Notes: 10 x 10 template Wife camples 100 cm² total area Preserveen Key: 1-HOI 2:HEQ 3-HSO, 4-NeOH 5:Ne,S.O, 8-NeHSO, 7-NeOH2NACISES 8-OBNY 9-6°C Materix Key: A-Air 8-ECX 3-Bod W-Weiter Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. COOLER TEMP: "C pHAQUISTMENTS: COOLER TEMP: "C DOCLING METHOD: NOW: COOLER NOT REPORT DELAY COOLER TEMP: "C DOCLING METHOD: NOW: COOLER NOT REPORT DELAY. Failure (Signature) Fine / Delay Received By: Time / Delay Received By: Time / Delay COOLER PACKAGE BANK/LES	18 Com 16 West Only Mars / Markel have from one											
Color Colo	19 1200-19 \$ Coold Blood						X					
Notes: 10 x 10 templete WIDC to cm2 total area Preservation Rep: 1-Hot 2-Hot), 3-H,SQ, 4-Hoth 5-Ne,SQ, 8-HeHSQ, 7-HeCH2740-sets 8-Cener 9-A°C Netris Key A-Air 8-SQX 8-Boil W-Weiter Failure to gamplete all portions of this form may delay analysis. Please fill in this form LEGIBLY. Failure to gamplete all portions of this form may delay analysis. Please fill in this form LEGIBLY. COOLER TEMP: "C pHACALISTMENTS: Tems / Date 9-SC 3-3-4-1-2 COOLER TEMP: "C pHACALISTMENTS: COOLER TEMP: "C pHACALISTMENTS: Tems / Date 10-Line Received By: Tems / Date 10-	·											
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Ship To: ALS Environmental 4388 Glendale Milford Rd. Cincinnati. Ohio 45242 Field Chain-of-Custody Record Page 3 3

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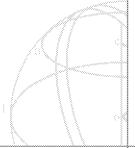
	(ALS)	Phone: Fax:	(513) 733-5336 (513) 733-5347	ere.	17	9319Y			EGULAF Seetus	K	RUSH Status	RESI	JLTS REQUIR CTALS ENVIRON	ED 8Y: (O) MENTAL PRIK	16) T 20 30 30 30 30 30 30 30 30 30 30 30 30 30	W5	3/5/	117	
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į		·····	Sample ID	/ Description	·	Date	Time	<u>d</u>	8	*	ļ.,							_	
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### Attachment D

ALS Global Cincinnati Laboratory Report Second Sampling Event – March 13, 2017





16-Mar-2017

Ryan Mathews Fulcrum Environmental Consulting 406 N. 2nd Street Yakima, WA 98901

Tel: (509) 574-0839

Fax:

Re: Sky Valley Edu Center; PN 17-2070 Work Order: 1703442

Dear Ryan,

ALS Environmental received 4 samples on 14-Mar-2017 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 10.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

## S havn S mythe

Electronically approved by: Shawn Smythe

Shawn Smythe Project Manager

> ADDRESS 4386 Glendale Millord Rd. Cincinnati. Ohio 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347 ALS GROUP USA, CORP. Part of the ALS Group. An ALS Limited Company

www.alsolobal.com

PROBLET SOLLSTOPS CORE TRANSPORT

ALS Environmental Date: 16-Mar-17

Client: Fulcrum Environmental Consulting
Project: Sky Valley Edu Center, PN 17-2070

Work Order: 1703442

TOTAL CIGAL SERVICE SERVICES	Work	Order	Sample	<b>Summary</b>
------------------------------	------	-------	--------	----------------

Lab Samp II	Client Sample ID	<u>Matrix</u>	Tag Number	<b>Collection Date</b>	Date Received	<u>Hold</u>
1703442-01	CTE	Air		3/13/2017 13:39	3/14/2017	
1703442-02	CTE Electrical Room	Air		3/13/2017 13:42	3/14/2017	
1703442-03	Field Blank	Air		3/13/2017	3/14/2017	
1703442-04	Lab Blank	Air		3/13/2017	3/14/2017	

ALS Environmental Date: 16-Mar-17

Client: Fulcrum Environmental Consulting
Project: Sky Valley Edu Center, PN 17-2070

**Work Order:** 1703442

Case Narrative

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Results relate only to the items tested and are not blank corrected unless indicated.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

CN Page 1 of 1

Client: Fulcrum Environmental Consulting Work Order: 1703442

Project:Sky Valley Edu Center, PN 17-2070Lab ID: 1703442-01Sample ID:CTEMatrix: AIR

**Collection Date:** 3/13/2017 01:39 PM

**Analytical Results** 

**Date:** 16-Mar-17

#### **Analyses**

PCBS BY EPA TO-10		Method: ETO10A	Air Volume (L): <b>2100</b>	Analyst: <b>JEA</b>
Date Analyzed: 3/15/2017	μg/sample	Reporting Limit µg/sample	mg/m3	
Aroclor 1016	ND	0.10	<0.000048	
Aroclor 1221	ND	0.10	<0.00048	
Aroclor 1232	ND	0.10	<0.00048	
Aroclor 1242	ND	0.10	<0.00048	
Aroclor 1248	ND	0.10	<0.00048	
Aroclor 1254	ND	0.10	<0.00048	
Aroclor 1260	ND	0.10	<0.00048	
Aroclor 1262	ND	0.10	<0.00048	
Aroclor 1268	ND	0.10	<0.00048	

Client:Fulcrum Environmental ConsultingWork Order: 1703442Project:Sky Valley Edu Center, PN 17-2070Lab ID: 1703442-02

Project: Sky Valley Edu Center, PN 17-2070 Lab ID: 1703442-0
Sample ID: CTE Electrical Room Matrix: AIR

**Collection Date:** 3/13/2017 01:42 PM

## **Analytical Results**

**Date:** 16-Mar-17

#### Analyses

PCBS BY EPA TO-10		Method: ETO10A	Air Volume (L): <b>2100</b>	Analyst: <b>JEA</b>
Date Analyzed: 3/15/2017		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Aroclor 1016	ND	0.10	<0.000048	
Aroclor 1221	ND	0.10	<0.000048	
Aroclor 1232	ND	0.10	<0.000048	
Aroclor 1242	ND	0.10	<0.00048	
Aroclor 1248	ND	0.10	<0.00048	
Aroclor 1254	ND	0.10	<0.00048	
Aroclor 1260	ND	0.10	<0.000048	
Aroclor 1262	ND	0.10	<0.000048	
Aroclor 1268	ND	0.10	<0.000048	

Client: Fulcrum Environmental Consulting Work Order: 1703442

Project: Str. Volley Edu Center: PN 17-2070

Leb ID: 1703442

Project:Sky Valley Edu Center, PN 17-2070Lab ID: 1703442-03Sample ID:Field BlankMatrix: AIR

Collection Date: 3/13/2017

## **Analytical Results**

**Date:** 16-Mar-17

#### Analyses

PCBS BY EPA TO-10		Method: ETO10A	Air Volume (L): 0	Analyst: <b>JEA</b>
Date Analyzed: 3/15/2017	,	Reporting Limit	4.0	
	μg/sample	μg/sample	mg/m3	
Aroclor 1016	ND	0.10	NA	
Aroclor 1221	ND	0.10	NA	
Aroclor 1232	ND	0.10	NA	
Aroclor 1242	ND	0.10	NA	
Aroclor 1248	ND	0.10	NA	
Aroclor 1254	ND	0.10	NA	
Aroclor 1260	ND	0.10	NA	
Aroclor 1262	ND	0.10	NA	
Aroclor 1268	ND	0.10	NA	

Client: Fulcrum Environmental Consulting Work Order: 1703442

Project: Sky Volley Edu Center: PN 17-2070

Lab ID: 1703442-0

Project:Sky Valley Edu Center, PN 17-2070Lab ID: 1703442-04Sample ID:Lab BlankMatrix: AIR

**Collection Date:** 3/13/2017

## **Analytical Results**

**Date:** 16-Mar-17

#### **Analyses**

PCBS BY EPA TO-10		Method: ETO10A	Air Volume (L): 0	Analyst: <b>JEA</b>
Date Analyzed: 3/15/2017		Reporting Limit		
	μg/sample	μg/sample	mg/m3	
Aroclor 1016	ND	0.10	NA	
Aroclor 1221	ND	0.10	NA	
Aroclor 1232	ND	0.10	NA	
Aroclor 1242	ND	0.10	NA	
Aroclor 1248	ND	0.10	NA	
Aroclor 1254	ND	0.10	NA	
Aroclor 1260	ND	0.10	NA	
Aroclor 1262	ND	0.10	NA	
Aroclor 1268	ND	0.10	NA	

Client: Fulcrum Environmental Consulting

**Work Order:** 1703442

**Project:** Sky Valley Edu Center, PN 17-2070

QC BATCH REPORT

Date: 16-Mar-17

Batch ID: 41848 Instrume	ent ID: GC3		Metho	d: <b>ETO10A</b>	<b>\</b>				
MBLK Sample ID: MBLK-41: Client ID:		D: <b>GC3_1</b>	70315A		Jnits: <b>µg/sa</b> :qNo: <b>14621</b>		Analysis Date: Prep Date: <b>3/14/2017</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value %RF	RPD Limit	Qual
Aroclor 1016	ND	0.10							
Aroclor 1221	ND	0.10							
Aroclor 1232	ND	0.10							
Aroclor 1242	ND	0.10							•
Aroclor 1248	ND	0.10							
Aroclor 1254	ND	0.10							-
Aroclor 1260	ND	0.10							
Aroclor 1262	ND	0.10							-
Aroclor 1268	ND	0.10							
Surr: Decachlorobiphenyl	0.0457	0	0.05	C	91.4	53.3-125	0		
Surr: Tetrachloro-m-xylene	0.0434	0	0.05	0	86.8	27.5-129	0		
LCS Sample ID: LCS-4184	8-41848			Į	Jnits: µg/sa	mple	Analysis Date:	3/15/2017	
Client ID:	Run I	D: <b>GC3_1</b>	70315A		qNo: <b>14621</b>		Prep Date: 3/14/2017		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value %RF	RPD PD Limit	Qua
Aroclor 1260	1.099	0.10	1	0	) 110	50.3-120	0		
Surr: Decachlorobiphenyl	0.0571	0	0.05	C	) 114	53.3-125	0		
Surr: Tetrachloro-m-xylene	0.0571	0	0.05	0	) 114	27.5-129	0		
The following samples were analyz	ed in this batch:		703442-01A 703442-04A	170	3442-02A	170	03442-03A		Annana

See Qualifiers Page for a list of Qualifiers and their explanation.

**ALS Environmental** Date: 16-Mar-17

Fulcrum Environmental Consulting Client: **QUALIFIERS,** Sky Valley Edu Center, PN 17-2070 Project: ACRONYMS, UNITS

WorkOrder: 1703442

Qualifier	Description							
*	Value exceeds Regulatory Limit							
a	Not accredited							
В	Analyte detected in the associated Method Blank above the Reporting Limit							
E	Value above quantitation range							
Н	Analyzed outside of Holding Time							
J	Analyte detected below quantitation limit							
n	Not offered for accreditation							
ND	Not Detected at the Reporting Limit							
O	Sample amount is > 4 times amount spiked							
P	Dual Column results percent difference > 40%							
R	RPD above laboratory control limit							
S	Spike Recovery outside laboratory control limits							
U	Analyzed but not detected above the MDL							
Acronym	Description							
DUP	Method Duplicate							
E	EPA Method							
LCS	Laboratory Control Sample							
LCSD	Laboratory Control Sample Duplicate							
MBLK	Method Blank							
MDL	Method Detection Limit							
MQL	Method Quantitation Limit							
MS	Matrix Spike							
MSD	Matrix Spike Duplicate							
PDS	Post Digestion Spike							
PDS PQL	Post Digestion Spike Practical Quantitaion Limit							
PQL	Practical Quantitaion Limit							

μg/sample

QF Page 1 of 1

### Sample Receipt Checklist

Client Name: FUI	_CR	<u>UM-YAKIMA</u>				Date/Time	Received:	<u>14-N</u>	Mar-1	7 00:00			
Work Order: 170	344	<u>2</u>				Received b	y:	SN	<u>H</u>				
Checklist completed		ErinP deson		14-Mar-17	_	Reviewed by:	S have	S myth	£			16-Mar-	
Matrices: Carrier name: <u>U</u>	<u>PS</u>		ı								ı		
Shipping container/c	oole	r in good condition?		Yes	<b>v</b>	No 🗌	Not F	resent					
Custody seals intact	on s	shipping container/cooler	?	Yes		No 🗌	Not F	resent	<b>~</b>				
Custody seals intact	on s	ample bottles?		Yes		No 🗌	Not F	resent	<b>V</b>				
Chain of custody pre	esent	?		Yes	✓	No 🗌							
Chain of custody sig	ned	when relinquished and re	ceived?	Yes	<b>V</b>	No 🗌							
Chain of custody ag	rees	with sample labels?		Yes	✓	No 🗌							
Samples in proper of	ontai	ner/bottle?		Yes	<b>V</b>	No 🗌							
Sample containers in	ntact	?		Yes	<b>V</b>	No 🗌							
Sufficient sample vo	lume	for indicated test?		Yes	<b>V</b>	No 🗌							
All samples received	l with	nin holding time?		Yes	<b>V</b>	No 🗌							
Container/Temp Blan	nk te	mperature in compliance	?	Yes	<b>√</b>	No 🗌							
Temperature(s)/Thei	mor	neter(s):		<u>6.0</u>									
Cooler(s)/Kit(s):													
Water - VOA vials ha	ave z	zero headspace?		Yes		No 💹	No VOA	/ials subn	nitted				
Water - pH acceptab	ole up	oon receipt?		Yes		No 🔤	N/A						
pH adjusted? pH adjusted by:				Yes		No 💹	N/A						
Login Notes:													
=====		======	====:	====		====	===						<del></del>
Client Contacted:			Date Contacted:			Person	Contacted	l:					
Contacted By:			Regarding:										
Comments:													
CorrectiveAction:										SI	RC Pa	ige 1 of	f 1

Ship To: ALS Environmental 4388 Glendale Milford Rd. Cincinnati, Ohio 45242 (613) 733-5336

# Field Chain-of-Custody Record Page 1

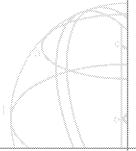
39182

(ALS)	Phone:	Cindinnett, Ohio 45 (613) 733-5336 (513) 733-5347	5242		16011	riA		8	EGULAR		35 5054.3	omers	me essent as	307 256 (Mas	2/1/.	113	~	
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_{0ek} <u>3</u>  13	1200		Purches	se Order No.:	* **				OH VAP:		YES	∏ NO	~~~~		: []Y		***************************************	
Company Name:	Folcoum	Environmer	YZL Project	No.: \72	070								ANAL	YSIS RE	QUESTE	D		
Address <u>406</u> Yolkima	N 2nd 4	t	Sempilo ?097)  Mir	g sie: _5K mæz	y Valley	<del>j Ed</del> c	2 (coto		Sample Typo / Metrix Key Abbr.									
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Telephone ( ):	<u>509 53</u>	74 0639 <u> </u>	······					I &	Š	2	్ద							
Alternate Contact:	Levi	yal thou	airesRicion	net				Passivetton Key #	5	of Sample Containers								
ALS Leb ID		Sample ID	/ Description		Date		Tims	; ****	Ö	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	2							
031317-01	CTE				3](8](1	7 6	31/1.31 ²⁴²				糸							
031317-02	CTE Ek	etneal Room	. V.	·····	3/3/1	1 64	12/1:42 2422				X,							
23(3)1-03	Field Blo	mK	05	~~~~	3/13/1	7					X							
23/3/7-04	יחגולא לען	Κ			8/18/	7					<u> </u>							
		u				_												
				····														
				~~~														~~
Notes;								<u> </u>										
																		~
Preservation Key:	199 2	HKS, 8-K80,	4-13OA - 6-	Ne,3,0,	8 - HeartSC,	7 - NeC ⁵ 50	Accide	8 - Other	ÿ.	.4°C		ebx Kvy	A-As	8 - 8uk	8 - 866	W - Wide		
Failure t	d domblete	all portions of	this form ma	y delay ai	nalysis. Pi	lease i	îll In this fo	ımı L	EG <i>18</i> ;	LY.	ca	OLER TEN	p j	ALSIASU A				
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Attachment E

Chain-of-Custody for Samples Delivered to EPA



Chain of Custody Record



Air Sample Collection Form

Monroe School District

March 6, 2017

Field Staff: Levi Wyatt

Calibrator: TSI 4000 series

Sample No.	Location	Start Time	End Time	Start Flow(L/min) ¹	End Flow(L/min)	Total Volume (L)
030617-01:Room F-B	Annex Bld – Room F	8:25 a.m.	3:25 p.m.	5.0	5.0	2100
030617-02: Girl Stg-B	Storage Room - Girls Locker	7:50 a.m.	2:50 p.m.	5.0	5.0	2100
030617-03: Girl LR-B	Girls Locker Room	7:35 a.m.	2:35 p.m.	5.0	5.0	2100
030617-04: Sm Gym-B	Small Gym	7:11 a.m.	2:11 p.m.	5.0	5.0	2100
030617-05: Elec Sm Gym-B	Electrical Room at Small Gym	7:20 a.m.	2:20 p.m.	5.0	5.0	2100
030617-06: Gathering Rm-B	Gathering Room	6:55 a.m.	1:55 p.m.	5.0	5.0	2100
030617-07:CTE-B	CTE	8:01 a.m.	11:01 a.m.	5.0		900

L/min = Liters per minute

Relevant Notes: Sample 030617-07	was discovered at 11:0	<u>)1 to have fallen off o</u>	f sampling apparatus;	therefore final vo	<u>lume was derived fr</u>	om discovery
of broken sample media						

Relinquished:

Date/Time: 3/7/2017

4:10 pm

Received:

Date/Time:

Chain of Custody Record



Air Sample Collection Form

* *	~	*** *
Monroe	School	District

March 13, 2017

Field Staff: Levi Wyatt

Calibrator: TSI 4000 series

Sample No.	Location	Start Time	End Time	Start Flow(L/min) ¹	End Flow(L/min)	Total Volume (L)
031317-01B: CTE	СТЕ	6:39 a.m.	1:39 p.m.	5.0	5.0	2100
L/min = Liters per minute	;	***************************************	***************************************			***************************************

Relevant Notes:

Relinquished:

Received: _

Date/Time: